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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/642,755 | 08/19/2003 | Kunihiko Tsunedomi | 520.42969X00 | 5647 |
| 86636 | 7590 | 04/05/2010 | EXAMINER | |
| BRUNDIDGE & STANGER, P.C. 2318 MILL ROAD, SUITE 1020 ALEXANDRIA, VA 22314 | | | AUVE, GLENN ALLEN | |
| ART UNIT | PAPER NUMBER | | | |
| | | | 2111 | |
| MAIL DATE | | DELIVERY MODE | | |
| 04/05/2010 | | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | |
|------------------------------|--------------------------------------|---|
| Office Action Summary | Application No. 10/642,755 | Applicant(s) TSUNEDOMI ET AL. |
| | Examiner Glenn A. Auve | Art Unit 2111 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-11 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
 5) Claim(s) ____ is/are allowed.
 6) Claim(s) 1-11 is/are rejected.
 7) Claim(s) ____ is/are objected to.
 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 19 August 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected because it is not clear what is meant by "whose transmission speed is smaller than that of said first transmission path" on lines 9-10. The notion that a speed can be related as being "smaller" is unclear.

Claim 2 is rejected because it is not clear what is meant by "whose transmission speed is smaller" on lines 5-6 and 12. The notion that a speed can be related as being "smaller" is unclear.

Claim 2 is also rejected based on lack of positive antecedent basis of "said second single multi-master type bi-directional communication interface" on lines 20-21 and "said single master bi-directional communication interface" on lines 30-31 because two of these types of interfaces were previously recited and it is not clear which one is being referenced.

Claims 3-11 are rejected because they depend on claim 2.

Claim 3 is also rejected because it recites "SPI (Serial Communication Interface)" which appears to equate these two terms. However SPI stands for Serial Peripheral Interface in the art which Serial Communication Interface it typically referred to as SCI.

Claim 5 is also rejected because it is not clear what is meant by "said master processor has an input mean which connects an input device and receives" on lines 2-3. Receives what?

Claim 5 is also rejected based on lack of positive antecedent basis of "said data communication means" on line 11.

Claim 6 is also rejected based on lack of positive antecedent basis of "said data communication means" on line 11.

Claim 7 is also rejected based on lack of positive antecedent basis of "said output device" on lines 3 and 13; and "said input data" on lines 4-5 and 7-8. Claim 7 is further rejected because it does not end in a period therefore it is not clear if something else has been left out of the claim.

Claim 8 is also rejected based on lack of positive antecedent basis of "said output device" on lines 2-3 and 4; "the input data" on line 3-4; "said first output page" on lines 7, 10-11 and 14-15; and "said input data" on line 10.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited references show multiprocessor systems that include master and slave processors including different serial buses coupled to them. The patent to Mares appears to be the closest reference located which includes SPI and SCI coupled to the processors. However it does not show that the request is sent on one of the interfaces and the data is transmitted on the other.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn A. Auve whose telephone number is (571) 272-3623. The examiner can normally be reached on M-F 8:00 AM-5:30 PM, every other Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Glenn A. Auve/
Primary Examiner
Art Unit 2111

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